National Institute of Environmental Health Sciences

Global warming and allergy in Asia Minor

Author(s): Bajin MD, Cingi C, Oghan F, Gurbuz MK
Year: 2013
Journal: European Archives of Oto-Rhino-Laryngology : Official Journal of The European Federation of Oto-Rhino-Laryngological Societies (Eufos) : Affiliated With The German Society for Oto-Rhino-Laryngology - Head and Neck Surgery. 270 (1): 27-31

Abstract:

The earth is warming, and it is warming quickly. Epidemiological studies have demonstrated that global warming is correlated with the frequency of pollen-induced respiratory allergy and allergic diseases. There is a body of evidence suggesting that the prevalence of allergic diseases induced by pollens is increasing in developed countries, a trend that is also evident in the Mediterranean area. Because of its mild winters and sunny days with dry summers, the Mediterranean area is different from the areas of central and northern Europe. Classical examples of allergenic pollen-producing plants of the Mediterranean climate include Parietaria, Olea and Cupressaceae. Asia Minor is a Mediterranean region that connects Asia and Europe, and it includes considerable coastal areas. Gramineae pollens are the major cause of seasonal allergic rhinitis in Asia Minor, affecting 1.3-6.4 % of the population, in accordance with other European regions. This article emphasizes the importance of global climate change and anticipated increases in the prevalence and severity of allergic disease in Asia Minor, mediated through worsening air pollution and altered local and regional pollen production, from an otolaryngologic perspective.

Source: http://dx.doi.org/10.1007/s00405-012-2073-9

Resource Description

Exposure :

weather or climate related pathway by which climate change affects health

Air Pollution, Temperature, Unspecified Exposure

Air Pollution: Allergens, Interaction with Temperature

Geographic Feature:

resource focuses on specific type of geography

General Geographical Feature

Geographic Location:

resource focuses on specific location

Non-United States

Non-United States: Asia

Asian Region/Country: Other Asian Region, Other Asian Country

Other Asian Region: Mediterranean;Asia minor

Other Asian Country: Turkey

Health Impact: ☑

specification of health effect or disease related to climate change exposure

Respiratory Effect

Respiratory Effect: Upper Respiratory Allergy, Other Respiratory Effect

Respiratory Condition (other) : General allergic disease

Resource Type: ☑

format or standard characteristic of resource

Review

Timescale: ☑

time period studied

Time Scale Unspecified

Vulnerability/Impact Assessment: ☑

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content